# Maximal3D
# Access Power Controller

Rev. DSMaximal3D - F27K

## Overview

Maximal3D

This unit distributes and switches power to access control systems and accessories. Unit converts a 115VAC 60Hz input into sixteen (16) independently controlled 12VDC or 24VDC Class 2 Rated PTC protected power-limited outputs. The outputs are activated by an open collector sink or normally open (NO) dry trigger input from an Access Control System, Keypad, Push Button, REX PIR, etc. Units will route power to a variety of access control hardware devices including: Mag Locks, Electric Strikes, Magnetic Door Holders, etc. Outputs will operate in both Fail-Safe and/or Fail-Secure modes. The FACP Interface enables Emergency Egress, Alarm Monitoring, or may be used to trigger other auxiliary devices. The fire alarm disconnect feature is individually selectable for any or all of the sixteen (16) outputs. All interconnecting equipment must be UL Listed.

## Specifications

- 12VDC or 24VDC outputs.
- Maximum output current:
  12VDC @ 5 amp or 24VDC @ 5.4 amp.
- Class 2 Rated power limited outputs.
- 115VAC 60Hz, 3.5 amp input.
- Input fuse rated @ 3.5 amp/250V.
- Power supply input options:
  a) Two (2) common power input for either ACM8CB and lock power (factory installed).
  b) Two (2) isolated power inputs (external power supply is required), (current is determined by the power supply connected, not to exceed a maximum of 10 amp total).
- Sixteen (16) Access Control System trigger inputs. Input options:
  a) Sixteen (16) normally open (NO) inputs.
  b) Sixteen (16) open collector inputs.
  c) Any combination of the above.
- Sixteen (16) independently controlled outputs can be Fail-Safe and/or Fail-Secure power outputs.
- Sixteen (16) auxiliary power outputs (unswitched) (outputs are rated @ 2 amp).
- ACM8CB boards main fuse is rated at 10 amp. Output PTC are rated @ 2.5 amp.
- Red LEDs indicate outputs are triggered (relays energized).
- Fire Alarm disconnect (latching or non-latching) is individually selectable for any or all of the sixteen (16) outputs.
- Fire Alarm disconnect input options:
  a) Normally open (NO) or normally closed (NC) dry contact input.
  b) Polarity reversal input from FACP signaling circuit.
- Alarm output relay indicates that FACP input is triggered (form “C” contact rated @ 1 amp 28VDC).
- Green LED indicates FACP disconnect is triggered.
- Filtered and electronically regulated outputs (built-inpower supply board(s)).
- Built-in charger for sealed lead acid or gel type batteries.
- Maximum charge current 0.7 amp.
- Automatic switch over to stand-by battery when AC fails.
- Zero voltage drop when unit switches over to battery backup (AC failure condition).
- Thermal and short circuit protection with auto reset.
- AC input and DC output LED indicators.
- AC fail supervision (form “C” contact).
- Low battery and battery presence supervision (form “C” contact).
- Enclosure accommodates up to four (4) 12AH batteries.

***Maximal™3D weights*** *(approximate)*:

- Product weight: 38.0 lbs.
- Shipping weight: 42.0 lbs.

## Agency Approvals

UL Listed for Access Control System Units (UL 294).

CUL Listed - CSA Standard C22.2 No.205-M1983, Signal Equipment.

CSFM
California State Fire Marshal Approved.

## Enclosure Dimensions (approximate)

26”H x 19”W x 6.25”D